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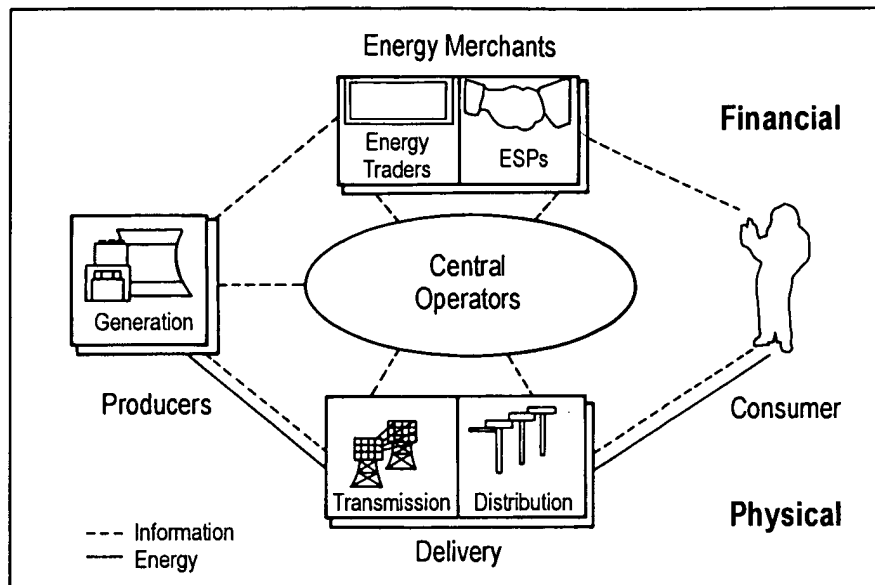


Fig. 1

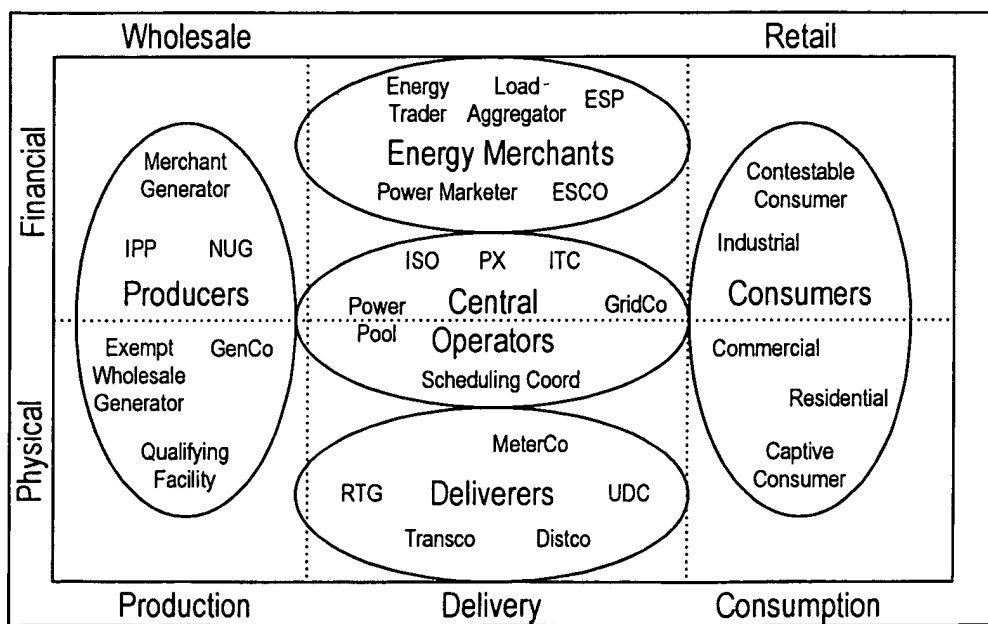


Fig. 2

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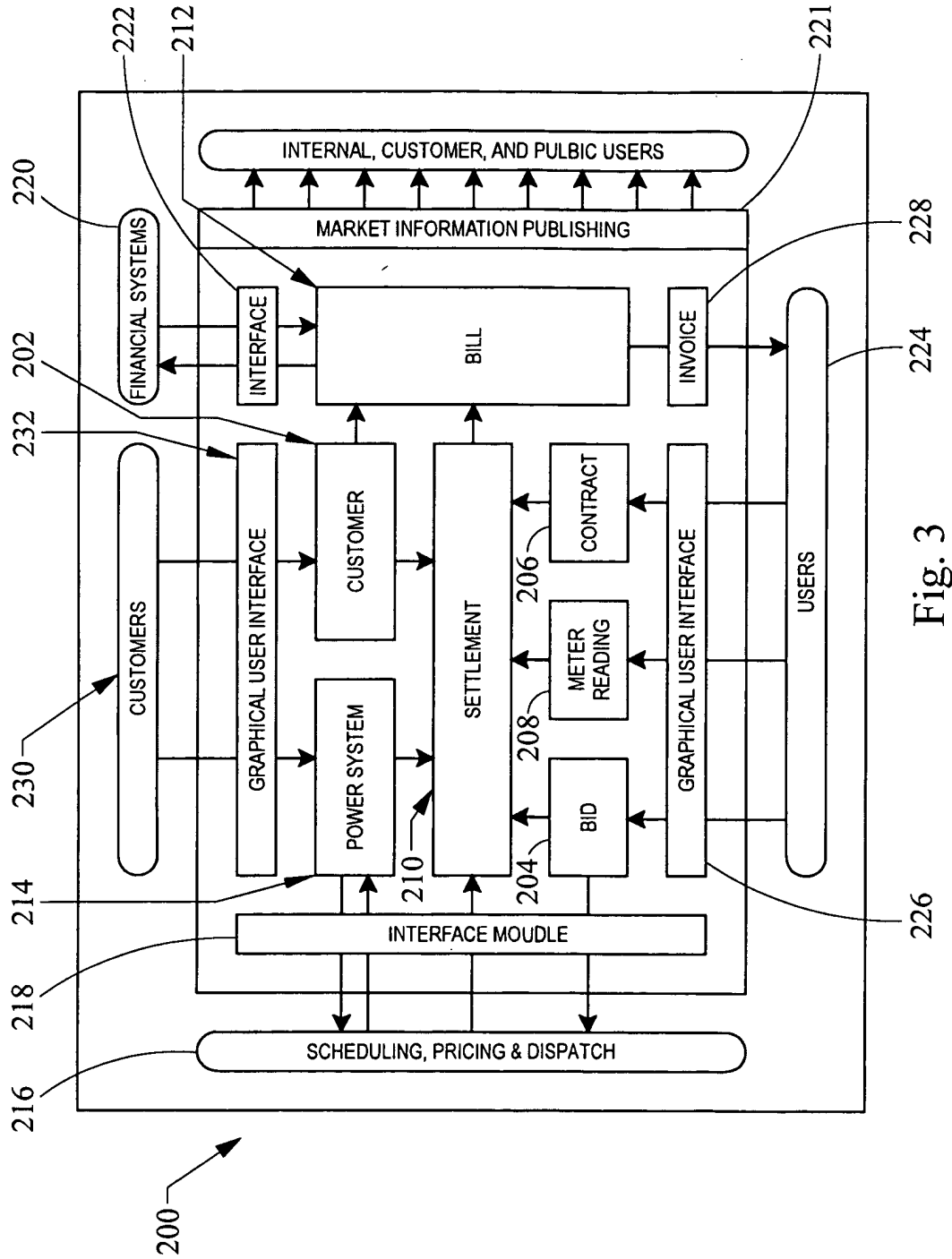


Fig. 3

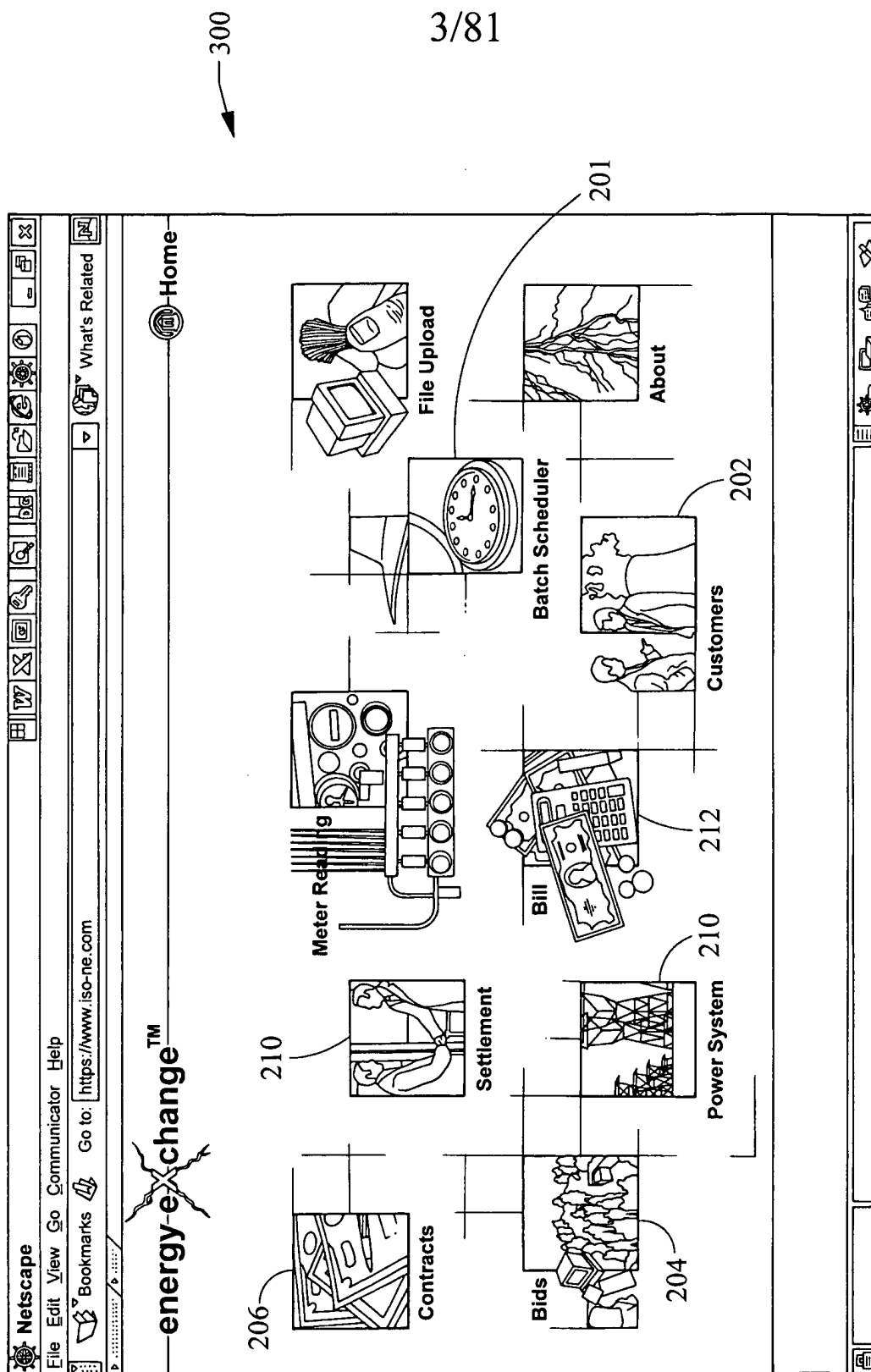


Fig. 4 - Home page as seen in Netscape browser

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**Netscape**  
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**energy-eXchange™** Home Bids

**Bid Information** Energy AGC Reserve Capability Resource Characteristics Maintenance

**Current Date:** Nov 10, 1998

**Bid Submission Deadlines**

		Date Range
Energy Market	12:00	Nov 12, 1998 - Nov 21, 1998
AGC Market	12:00	Nov 12, 1998 - Nov 21, 1998
Reserve market	12:00	Nov 12, 1998 - Nov 21, 1998
Operable Capability Market	12:00	Nov 12, 1998 - Nov 21, 1998
Installed Capability Market	12:00	Dec 1, 1998 - Sep 1, 1999
Resource Characteristics	12:00	Nov 12, 1998 - Nov 21, 1998

**Participant:** Cadillac Gen Co.

**1. Enter Customer Search Criteria**  
☒ Customer ID \*  
☐ Customer Name  
 As of: 11/10/1998

**2. Find**  
**3. Select Customer**

Identifier	Name
903	Cadillac Gen Co.
904	Mustang Retail Co.
905	Rolls Royce Utility

OK

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

Fig. 5

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Home

Bids

Energy AGC Reserve Capability Resource Characteristics Maintenance

Start Helper Edit

1. Select Bidding Action  
Create new bid from scratch

2. Select Type of Bid  
Normal

3. Select Dispatch Date  
Nov 12, 1998

4. Choose Unit or Load  
☒ Unit ☐ Dispatchable Load  
AVALANCHE GAS

Next

Submit Clear All Reset

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

Fig. 6

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Fig. 7

Netscape

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energy-exchange™

Home

Bids

Bid Information

Energy

AGC

Reserve

Capability

Resource Characteristics

Maintenance

Start

Help

Edit

4. Enter Data

Bid Helper

Block Selection

Bid Block

Begin (hour ending)

End (hour ending)

Grid Column

Amount (MW)

Price (\$)

Fill

Submit

Clear All

Reset

Enter Normal bid for Cadillac Gen Co., AVALANCHE GAS Unit for Nov. 12, 1998

701 702 703

Hr End	SS	LOL	HOL	100	434	MW	Total
0100	0	60	534	15.0	25.0		534
0200	0	60	534	15.0	25.0		
0300	0	60	534	15.0	25.0		
0400	0	60	534	15.0	25.0		
0500	0	60	534	15.0	25.0		
0600	0	60	534	15.0	25.0		
0700	0	60	534	15.0	25.0		
0800	0	60	534	15.0	25.0		
0900	0	60	534	15.0	25.0		
1000	0	60	534	15.0	25.0		

Claimed Low Limit (MW) 60.0 Seasonal Claimed Capability (MW) 534.0

Contracts Batch Scheduler

File Upload Settlement

Meter Readings Power System

Bids Customers

Bill About

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Fig. 8

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**Home** **Bids** **Bills**

**Energy Bid Submission Confirmation**

Asset Identifier: 101  
 Asset Type: Generating Unit  
 Date: Nov 12, 1998  
 Submitted on: Tue Nov 10 17:39:41 EST 1998  
 Validation Status: Success  
 Validation Message: Validation successful  
 Process Status: Success  
 Process Message: Processing Successful

**Save** **OK** **Reset**

Signed by: ISO New England

Validated Low Limit (MW): 00.00

Operational Validated Capacity (MW): 534.0

Bid Block	Begin (hour ending)	End (hour ending)	Grid Column	Amount (MW)	Price (\$)
1					
2					
3					
4					
Total				534	

**4. Enter Data**

**Bid Helper**

Block Selection

Bid Block

Begin (hour ending)

End (hour ending)

Grid Column

Amount (MW)

Price (\$)

**Submit** **Clear All** **Reset**

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Netscape  
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Home

Bids

energy-exchange™

Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Start Helper Edit

1. Select Bidding Action  
Create new bid from scratch

2. Select Dispatch Date  
Nov 12, 1998

3. Choose Unit  
AVALANCHE GAS

Next

Submit Clear All Reset

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

Fig. 9



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Fig. 10

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Bids

**Bid Information** **Energy** **AGC** **Reserve** **Capability** **Resource Characteristics** **Maintenance**

Enter AGC bid for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

**4. Enter Data**

**Bid Helper**

Begin (hour ending) 0100  
 End (hour ending) 2400  
 Price (\$)

Hr End	AGC (\$/hr)
0100	22.0
0200	22.0
0300	22.0
0400	22.0
0500	22.0
0600	22.0
0700	22.0
0800	22.0
0900	22.0
1000	22.0
1100	22.0
1200	22.0

1001

**Contracts** **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 11

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Bids

**Bid Information** Energy AGC Reserve Capability Resource Characteristics Maintenance

**4. Enter Data** Start Helper Edit

**Bid Helper**

Begin (hour ending) 0100  
 End (hour ending) 2400  
 Range # 1  
 Low (MW)  
 High (MW)

Fill

Submit Clear All Reset

Enter AGC Characteristics for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

	Range 1 Limits		Range 2 Limits		Range 3 Limits		Range 4 Limits		Automatic Response Rate
	Low	High	Low	High	Low	High	Low	High	
0100	60	534							25.0
0200	60	534							
0300	60	534							
0400	60	534							
0500	60	534							
0600	60	534							
0700	60	534							
0800	60	534							
0900	60	534							
1000	60	534							
1100	60	534							
1200	60	534							

Edit Bid Edit AGC Characteristics

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 12

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Home  
Bids  
Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance  
Start Helper Edit  
1. Select Bidding Action  
Create new bid from scratch  
2. Select Type of Reserve Bid  
10 Min Spinning (TMSR)  
3. Select Dispatch Date  
Nov 12, 1998  
4. Choose Unit or Load  
☒ Unit ☐ Dispatchable Load  
AVALANCHE GAS  
Next  
Submit Clear All Reset  
Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 13

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 Home Bids

**Reserve** Bid Information Energy AGC Resource Characteristics Capability Maintenance

Enter 10 Min Spinning (TMSR) Reserve bid for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

**Bid Helper**  
 Start Helper Edit  
 5. Enter Data  
 Begin (hour ending) 1400  
 End (hour ending) 2400  
 Price (\$)   
 Fill

Hr End	TMSR (\$/MW)
0100	15.55
0200	15.55
0300	15.55
0400	15.55
0500	15.55
0600	15.55
0700	15.55
0800	15.55
0900	15.55
1000	15.55
1100	15.55
1200	15.55

Submit Clear All Reset

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 14

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Home Bids

**Navigation:** Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

**1. Select Bidding Action**  
Create new bid from scratch

**2. Select Market**  
☒ Operable Capability  
☐ Installed Capability

**3. Select Dispatch Date**  
Nov 12, 1998

**Buttons:** Start Helper Edit Submit Clear All Next Reset

**Footer:** Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 15

**Netscape**  
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**energy-exchange™** **Bids** **Home**

**Bid Information** **Energy** **AGC** **Reserve** **Capability** **Resource Characteristics** **Maintenance**

Enter bid for Cadillac Gen Co., Operable Capability for Nov 12, 1998

**4. Enter Data**

**Bid Helper**

Begin (hour ending) 0100  
 End (hour ending) 2400  
 Grid Column 2  
 Amount (MW)  
 Price (\$)

**Fill** **Submit** **Clear All** **Reset**

Hr End	330.0	200.0																		
0100	45.0	60.0																		
0200	45.0	60.0																		
0300	45.0	60.0																		
0400	45.0	60.0																		
0500	45.0	60.0																		
0600	45.0	60.0																		
0700	45.0	60.0																		
0800	45.0	60.0																		
0900	45.0	60.0																		
1000	45.0	60.0																		
1100	45.0	60.0																		
1200	45.0	60.0																		

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 16

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Home  
Bids  
Resource Characteristics  
Maintenance  
Bid Information Energy AGC Reserve Capability  
Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Start Edit

1. Select Submission Action  
Edit an existing

2. Select Dispatch Date  
Nov 12, 1998

3. Select Unit or Load  
☒ Unit ☐ Dispatchable Load  
AVALANCHE GAS

Next

Submit Clear All Next Reset

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Fig. 17

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Bids

**Resource Characteristics** Maintenance

Bid Information Energy AGC Reserve Capability

Start Edit

1. Select Submission Action  
Edit an existing

2. Select Dispatch Date  
Nov 12, 1998

3. Select Unit or Load  
☒ Unit ☐ Dispatchable Load  
AVALANCHE GAS

Next

Submit Clear All Reset

Enter characteristics for Cadillac Gen Co., AVALANCHE GAS Unit for Nov 12, 1998

**Unit Characteristics**

Minimum Run Time (hr)	22
Minimum Shutdown Time (hr)	24
Startup Time From Cold Conditions (hr)	5
Shutdown Time Cold Condition Applies (hr)	25
Startup Time From Hot Conditions (hr)	5
Manual Response Rate (MW/min)	3.4
Hours Of Startup	0
Startup Profile	

**Reserve Capability When Off-Line**

MW Available in 10 Minutes	10.0
MW Available in 30 Minutes	15.0

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 18

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Home

Bids

Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

**Bid Parameters**

Select Action

☒ Edit Existing Parameters

☐ Create New Parameters

Effective From: Nov 11, 1998

Next

Submit Clear All Reset

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Fig. 19

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Bids

**Bid Parameters** Bid Information Energy AGC Reserve Capability Resource Characteristics Maintenance

**Select Action**  
☒ Edit Existing Parameters  
☐ Create New Parameters

**Effective From:** Nov 11, 1998

**Next** **Submit** **Clear All** **Reset**

**Bid Submission Deadline**  
Effective From: Nov 10, 1998 To: Nov 17, 1998

Energy Market 12:00  
Reserve Market 12:00  
AGC Market 12:00  
Installed Capability Market 12:00  
Operable Capability Market 12:00  
Resource Characteristics 00:00

**Other Parameters**  
Number of Advance Bids that can be submitted 10  
Number of Prior Bids that can be retrieved 10  
Maximum High Operating Limit Percentage over Seasonal Claimed Capability 25.0

**Make Modification Effective From:** Nov 11, 1998

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 20

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**Home** **Contracts**

**1. Select Contract Type**  
New Search Result Helper  
☒ Internal ☐ External ☒ Unit ☐ Load ☐ System ☐ Obligation

**2. Select Market Product(s)**  
☒ Energy ☐ AGC ☐ OPCAP ☐ ICAP ☐ TMSR ☐ TMNSF ☐ TMOR

**3. Specify Contract Duration(Hour Ending)**  
Begins 12/15/1998 01:00  
Ends 12/15/1998 24:00  
☐ Life of the Unit/Load **Next**

**Clear All** **Submit**

**General Info** **Details** **Schedule Info** **Pre-Determined Cond** **ICAP Adj**

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 21

**Netscape** File Edit View Go Communicator Help  
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Contracts

**Contract ID**

**Parties**  
Seller   
Buyer   
☐ With Pre-Determined Condition (for ext. purchase)

**Reference ID**   
**Non-Standard ID**   
**ICAP Contract ID**

Hydro-Quebec  
Not Applicable to Hydro Quebec

**General Info** Details Schedule Info Pre-Determined Cond ICAP Adj

**1. Select Contract Type**  
Internal ☒ External ☐  
Unit ☒ Load ☐ System ☐ Obligation ☐

**2. Select Market Product(s)**  
Energy ☒ TMSR ☐  
AGC ☐ TMSF ☐  
OPCAP ☐ TMOR ☐  
ICAP ☐

**3. Specify Contract Duration(Hour Ending)**  
Begins    
Ends    
☐ Life of the Unit/Load

**Clear All** **Submit** **Next**

**Contracts** **File Upload** **Batch Scheduler** **Schedulr** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 22

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**Home**

**Contracts**

**Enter Asset Contract Details :**

Asset Name: AVALANCHE GAS

Asset Percentage (%): 25.5  
(Percent carried to 4 decimal places, e.g. 80.1234)

**1. Select Contract Type**

Internal ☒ External ☐ Unit ☒ Load ☐ System ☐ Obligation ☐

**2. Select Market Product(s)**

Energy ☒ TMSR ☐  
AGC ☐ TMNSF ☐  
OPCAP ☐ TMOR ☐  
ICAP ☐

**3. Specify Contract Duration(Hour Ending)**

Begins: 12/15/1998 01:00  
Ends: 12/15/1998 24:00  
☐ Life of the Unit/Load

**Clear All** **Submit** **Next**

**General Info** **Details** **Schedule Info** **Pre-Determined Cond** **ICAP Adj**

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 23

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**Contracts**

**Home**

**Based on**  
☒ Unit  
☐ External Contract

**Enter Unit ID**  
Unit(s) Selected  
Availability ☐ Generation ☐  
☒ EN ☐ AN ☐ OR

**Amount (MW)**  
(Up to 3 decimal places)  
Add to List

ID	Type	Comparison	Power	Condition
Unit: 102	Availability	>=	5.65	END

**Remove from List**

**General Info** **Details** **Schedule Info** **Pre-Determined Cond** **ICAP Adj**

**1. Select Contract Type**  
☒ Internal  
☐ External  
☐ Unit  
☐ Load  
☐ System  
☐ Obligation

**2. Select Market Product(s)**  
☒ Energy  
☐ AGC  
☐ TMSR  
☐ TMNSF  
☐ OPCAP  
☐ TMOR  
☐ ICAP

**3. Specify Contract Duration(Hour Ending)**  
Begins 12/15/1998 01:00  
Ends 12/15/1998 24:00  
☐ Life of the Unit/Load **Next**

**Clear All** **Submit**

**Contracts** **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 24

**Netscape**  
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**Contracts**

**Home**

**1. Select Contract Type**  
New Search Result  
☒ Internal ☐ External

**2. Select Market Product**  
☒ Energy ☐ AGC ☐ OPCAP ☐ ICAP

**3. Specify Contract Duration**  
Begins 12/15/1998  
Ends 12/15/1998  
☐ Life of the Unit/Load

**Contract Information**  
--- 1 New Internal Unit Contract received ---  
Contract ID : 6486(Energy)  
--- Contract(s) General Information ---  
Buyer ID : 904 , Seller ID : 903  
Unit ID : 101 , Unit Percentage : 25.5  
Reference ID : 12345 , Non-Standard ID : 67890  
--- Contract Duration(Hour Ending) ---  
Start : 12/15/1998 01:00 , End : 12/15/1998 24:00

**Condition**  
END

**Buttons:** Save, OK, Next Page, Remove from List, Add to List, General Info, Details, Schedule Info, Pre-Determined Cond, ICAP Adj, Signed by: ISO New England, Next, Submit, Clear All

**Navigation:** Contracts, Batch Scheduler, File Upload Settlement, Meter Readings Power System, Bids Customers, Bill About

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Fig. 25

**Netscape**  
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**energy-exchange™**

**Home**  
**Contracts**

**1. Select Contract Type**  
New Search Result Helper  
☐ Internal ☐ External ☐ Unit ☐ System w/ Unit Char. ☐ System ☐ Firm

**2. Select Market Product(s)**  
☐ ICAP  
☒ Energy 1 (sold out of Op. Reserve & no OpCap)  
☐ Energy 2 (not sold out of Op. Reserve & w/ OpCap)

**3. Specify Contract Duration(Hour Ending)**  
Begins 12/15/1998 01:00  
Ends 12/15/1998 24:00  
☐ Life of the Unit/Load

**General Info** **Details** **Schedule Info** **Pre-Determined Cond** **ICAP Adj**

**Clear All** **Submit** **Next**

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**



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Fig. 26

**Netscape**  
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**Home**

**Contracts**

**Contract ID**

**Parties**  
☒ Seller Mercedes Utility  
☐ Buyer New York

☐ With Pre-determined Condition (for ext. purchase)

**Reference ID**

**Non-Standard ID**

**ICAP Contract ID**

Hydro-Quebec

Not Applicable to Hydro Quebec

**General Info** **Details** **Schedule Info** **Pre-Determined Cond** **ICAP Adj**

**1. Select Contract Type**  
☐ Internal ☐ External ☐ Unit ☐ System w/ Unit Char. ☒ System ☐ Firm

**2. Select Market Product(s)**  
☐ ICAP  
☒ Energy 1 (sold out of Op. Reserve & no OpCap)  
☐ Energy 2 (not sold out of Op. Reserve & w/ OpCap)

**3. Specify Contract Duration(Hour Ending)**  
Begins    
Ends    
☐ Life of the Unit/Load **Next**

**Clear All** **Submit**

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

[illegible]

[illegible]

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Fig. 29

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What's Related

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**Home**

**Contracts**

**Based on**  
☒ Unit  
☐ External Contract

Enter Unit ID   
Unit(s) Selected   
Availability ☒  
☒ EN ☐ AN ☐ OR

**1. Select Contract Type**  
☐ Internal  
☒ External  
☐ Unit  
☐ System w/ Unit Char.  
☐ System ☐ Firm

**2. Select Market Product(s)**  
☐ ICAP  
☒ Energy 1  
(sold out of Op. Reserve & no OpCap)  
☐ Energy 2  
(not sold out of Op. Reserve & w/ OpCap)

**3. Specify Contract Duration(Hour Ending)**  
Begins 12/15/1998 01:00  
Ends 12/15/1998 24:00  
☐ Life of the Unit/Load

**Remove from List**

**ICAP Adj.**

**Pre-Determined Cond**

**Schedule Info**

**Details**

**General Info**

ID	Type	Comparison	Power	Condition
Unit 103	Availability	>=	10.25	END

**Clear All** **Submit**

**Contracts** **Batch Scheduler** **File Upload** **Settlement** **Bids** **Customers** **Bill** **About**

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Fig. 30

**Netscape**  
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**energy-exchange™** Home Contracts

**1. Select Search Criteria**  
Choose at least one :

☐ Contract ID  
☐ Reference ID  
☒ Type  
    ☒ Internal  
    ☐ External  
    ☐ Unit  
    ☐ Load  
    ☐ System  
    ☐ Firm  
    ☐ Obligation

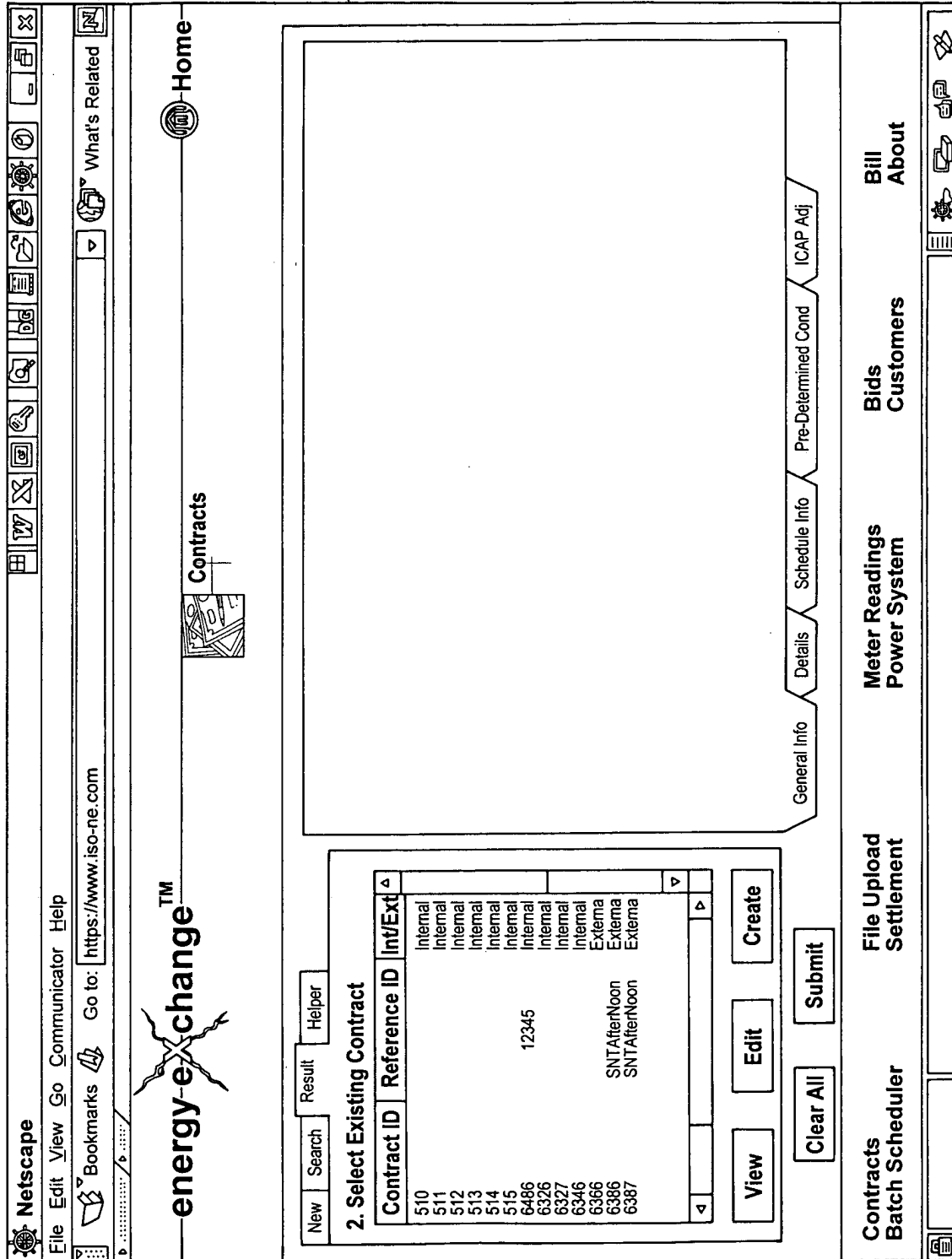
**Optional :**  
☐ Party  
☐ Seller Nm  
☐ Buyer Nm  
☐ Market Product  
    Energy  
☐ Duration  
    Begins // Ends //

General Info Details Schedule Info Pre-Determined Cond ICAP Adj

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 31



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Fig. 32

**Netscape**  
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Home Customers

**Customer Detail**

Customer Type  
☒ Participant  
☐ Non-Participant  
☐ Pool Operator

Pool Status  
☒ Active  
☐ Suspended  
☐ Terminated

Settlement Status  
☒ Will Be Settled  
☐ Special Contract Processing (HQ)  
☒ Has Voting Share

Governance Requirements Status  
☐ All-Requirements Participant

General Address Contact Duns Related Assets Governance  
Customer ID 903 As of 11/11/1998  
Customer Name Cadillac Gen Co. End / /

Submit Reset

3201

New Existing  
Search On  
Name C\* ID  
As of: 11/10/1998 Find  
Name ID  
Cadillac Gen Co. 903  
OK

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 33

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What's Related

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**Home**

**Customers**

**Address**

**General** **Address** **Contact** **Duns** **Related** **Assets** **Governance**

Type:  General

Street: 966 Fairview Circle

City: Venice Beach

State/Province: MA

Postal Code: 98210

Country: U.S.A.

Notes:

Customer ID: 903

Customer Name: Cadillac Gen Co.

As of: 11/11/1998

End: / /

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

**New** **Existing**

Search On: ☐ Name ☐ ID

As of: 11/10/1998

**Name** **ID**

Cadillac Gen Co. 903



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Fig. 34

**Netscape**  
File Edit View Go Communicator Help  
Bookmarks Go to: <https://www.iso-ne.com>  
What's Related

**energy-exchange™**

**Home**

**Customers**

**Contact**

**General** **Address** **Contact** **Duns** **Related** **Assets** **Governance**

**Type**  **Notes:** Notes as of Nov 8

**Salutation**  **Mrs.**

**Last Name**  **Meyers**

**First Name**  **Natalie**

**Title**  **Carpenter**

**Phone**  (816) 45-2600 **Ext**  23

**Fax**  (203)888-8888

**e Mail**  company@cadillac.com

**Customer ID**  903 **As of**  11/11/1998

**Customer Name**  Cadillac Gen Co. **End**  / /

**Submit** **Reset**

**New** **Existing** **Search On** ☐ Name  C\* ☐ ID **As of:**  11/10/1998 **Find**

**Name**  **ID**  903

**OK**

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 35

**Netscape**  
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**energy-exchange™** Home  
Customers

**Duns**

New Existing  
Search On: ☐ Name ☐ ID  
As of: 11/10/1998 Find

**Duns Number** 11-223-3445  
**From** 11/11/1998  
**To**   
**Remove**

**Effective From/To**  
As Of: 11/11/1998  
En: ☐  
**Add**

**General** Address Contact Duns Related Assets Governance  
Customer ID: 903 As of: 11/11/1998  
Customer Name: Cadillac Gen Co. End: / /  
**Submit** **Reset**

**OK**

**Contracts** Batch Scheduler  
**File Upload** Settlement  
**Meter Readings** Power System  
**Bids** Customers  
**Bill** About

35/81

Fig. 36

**Netscape**  
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**energy-exchange™** Home Customers

**Search On**  
New Existing  
☐ Name ☐ ID  
As of: 11/10/1998 Find

**Customer List**  
Name ID  
Cadillac Gen Co. 903  
Mustang Retail Co. 904  
Rolls Royce Utility 905

**Effective From/To**  
From 11/11/1998 To 11/06/1998 11/07/19  
En 12/9/1998  
Add Remove

**Related Customer Name**  
Mustang Retail Co.

**General Address Contact Duns Related Assets Governance**  
Customer ID 903 As of 11/11/1998  
Customer Name Cadillac Gen Co. End / / Submit Reset

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

OK

36/81

Fig. 37

**Netscape**  
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Bookmarks Go to: <https://www.iso-ne.com> What's Related

**energy-exchange™** Home Customers

**Assets**

For additional information or to assign an asset, go to "Power System Maintenance"

Asset Name	Type	Type of Responsibility	% Owned
PANTHER P/S PUMP	Load Facility	Lead Participant/ Meter Reader	40.0
AVALANCHE GAS	Generating Unit		5.0E-4
MIGHTY DUCK LOAD	Load Facility		19.00001
PANTHER P/S LOAD	Generating Unit		80.9999

General Address Contact Duns Related Assets Governance

Customer ID: 903 As of: 11/11/1998 Submit Reset

Customer Name: Cadillac Gen Co. End

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

**New Existing**  
Search On: ☐ Name ☐ ID  
As of: 11/10/1998 Find  
Name: Cadillac Gen Co. ID: 903  
OK

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Fig. 38

**Netscape**  
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Bookmarks What's Related

**energy-exchange™**

**Home**

**Customers**

**Governance**

**For the month of:** October 1998

Peak Load (P) 10.0  
Total Load (E) 50.  
Generation Ownership (C) 150.  
Entitlements (X) 75.  
Transmission kV-Miles (M) 5,799  
Transmission Revenue Requirement (R) \$ 60.00

**Submit** **Reset** **Clear**

**Contact** **Duns** **Related** **Assets** **Governance** **User Profile** **Agent**

Customer ID 903 As of 11/11/1998  
Customer Name Cadillac Gen Co. End / /

**Submit**

**New** **Existing**  
Search On  
☒ Name ☐ ID  
As of: 11/10/1998 **Find**

**Name** **ID**  
Cadillac Gen Co. 903

**OK**

**Contracts** **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 39

**Netscape**  
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**Customers**

**Home**

**User Profile Maintenance**

**New Existing**  
Search On  
☐ Name ☐ ID  
As of: 11/10/1998 **Find**

**Name**  
Cadillac Gen Co.

**ID**  
903

**OK**

**User ID** 555555555 **Find**  
**User Name** test  
**Begin Date** 11/11/1998  
☐ End

**Access Area** **Modify View** **None**

**Customer**.....  
**Governance**.....  
**Power System**.....  
**Bidding Info**.....  
**Bidding Maint**.....  
**Contract**.....  
**Bill**.....

**Access Area** **Modify View** **None**

**Settlement**.....  
**Pricing**.....  
**Set Job Sub**.....  
**Billing Job Sub**.....  
**Gov. Job Sub**.....  
**Metering**.....  
**Operations**.....

**Submit** **Reset**

**User List** 555555555 **Add** **Remove**

**Contact** **Duns** **Related** **Assets** **Governance** **User Profile** **Agent**

**Customer ID** 903 **As of** 11/11/1998 **Submit** **Reset**  
**Customer Name** Cadillac Gen Co. **End** / /

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 40

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**energy-exchange<sup>TM</sup>** Home Customers

**Agent Maintenance**

☐ Name ☐ ID  \*

**Effective From/To**  
From  11/11/1998  End

Name	ID	Agent	From	To
Mustang Retail Co.	904	Mustang Retail Co.	11/10/1998	
Rolls Royce Utility	905			
Mercedes Utility	906			
Nissan NUG	908			
New York Hydro-Quebec	909			
	50001			

**Agent Maintenance** Contact Duns Related Assets Governance User Profile Agent

Customer ID  903 As of  11/11/1998

Customer Name  Cadillac Gen Co.  / /

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

**New Existing** Search On ☐ Name ☐ ID  C\*

**As of:**  11/10/1998

Name	ID
Cadillac Gen Co.	903

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Fig. 41

**energy-exchange™**

Home Power System Network Area Network Node Generating Unit Load Facility Tie Line

Network Area Identifier: 32 This Information effective: 11/13/1998  
 Network Area Description: NEPOOL

**Search Results**

2. Select Network Area

Identifier	Description
32	NEPOOL
33	PTF
34	External
35	MEPCO
36	HQ

Submit Reset OK

<< Add Remove >>

**Network Nodes in this Network Area**

Identifier	Description
401	PTF
402	WEST
403	EAST

**Network Nodes NOT in this Network Area**

Identifier	Description
404	HQIC
405	HQ
406	MEPCO
407	NB
408	NY

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About



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Fig. 42

**Netscape**  
File Edit View Go Communicator Help  
Bookmarks Go to: <https://www.iso-ne.com> What's Related

**energy-exchange™** Home

Power System

Network Area Network Node Generating Unit Load Facility Tie Line

**Find Network Node**

1. Enter Search Criteria

☐ Node Identifier   
☐ Area Identifier

Submit Reset Find

**Existing Search Results**

This information effective: 11/13/1998

Identifier	Description
32	NEPOOL
33	PTF
34	External
35	MEPCO
36	HQ

<< Add Remove >>

**Details**

Network Areas associated with this Network Node

Network Areas NOT associated with this Network Node

Network Area Generating Unit Load Facility Tie Line

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 43

**Netscape**  
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What's Related

**energy-exchange**<sup>TM</sup>  
Power System

**Home**

**Network Area** **Network Node** **Generating Unit** **Load Facility** **Tie Line**

**Find Network Node**

**1. Enter Search Criteria**

☐ Node Identifier   
☐ Area Identifier

**Find**

**Generating Unit**

Generating Units associated with this Network Node

Identifier	Name
103	LIGHTNING HYDRO
104	DALLAS STAR

**Details**

**1. Enter Search Criteria**

Unit Identifier

**2. Find**

**2. Select Generating Unit**

Identifier	Name	Node
------------	------	------

**<<Move**

**Network Area** **Generating Unit** **Load Facility** **Tie Line**

**Network Node Identifier:**  **This Information effective:**

**Network Node Description:**

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 44

**Netscape**  
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What's Related

**energy-exchange™**  
Home

**Power System**

**Network Area** **Network Node** **Generating Unit** **Load Facility** **Tie Line**

**Find Network Node**  
1. Enter Search Criteria  
☐ Node Identifier   
☐ Area Identifier   
**Find**

**Load Facility**  
Load Facilities associated with this Network Node  

Identifier	Name
201	MIGHTY DUCK LOAD
202	HURRICANE LOAD
206	COYOTE LOAD
1402	402 Losses

**Details**

**Network Node Identifier:** 402  
**Network Node Description:** WEST  
This information effective: 11/13/1998

**1. Enter Search Criteria**  
Load Identifier   
**Find**

**2. Select Load Facility**  

Identifier	Name	Node

**<<Move**

**Network Area** **Generating Unit** **Load Facility** **Tie Line**

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 45

**energy-exchange™**

Home Power System

Network Area Network Node Generating Unit Load Facility Tie Line

Network Node Identifier: 402 This information effective: 11/13/1998  
 Network Node Description: WEST

**Find Network Node**

1. Enter Search Criteria

☒ Node Identifier   
☐ Area Identifier

**Tie Line**

Tie Lines associated with this Network Node

Identifier	Name	Type
301	Red	Mon
305	Blue	Mon
306	Indigo	Rec
307	Violet	Rec

1. Enter Search Criteria  
 Tie Line Identifier

2. Find

3. Select Tie Line

Identifier	Name
<input type="text"/>	<input type="text"/>

☒ Monitor ☐ Receive

Network Area Generating Unit Load Facility Tie Line

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 46

**Netscape**  
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 What's Related

**Home**  
**Power System**

**energyexchange™**

**Generating Unit**  
 Network Area Network Node Load Facility Tie Line

**Search Results**  
 New Existing

Identifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR

**2. Select Generating Unit**  
 Generating Unit Identifier: 101  
 Generating Unit Name: AVALANCHE GAS  
 Changes made effective from: 11/13/1998

**Generating Unit Details**  
 Plant Name: X  
 Operating Status: Active  
 Type: Gas  
 Winter Claimed Capability: 534.0 MW  
 Summer Claimed Capability: 551.37 MW  
 Claimed Low Limit: 60.0 MW

**General**  
 Status Staffing Ownership

**Network Node Association**  
 Network Node Identifier: 403  
 Details

**Submit** **Reset** **OK**

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 47

**energy-exchange™**

**Power System**

**Home**

**Network Area** **Network Node** **Generating Unit** **Load Facility** **Tie Line** **AGC Market** **Market Status** **General** **Status** **Staffing** **Ownership** **Contracts** **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

**2. Select Generating Unit**

**Search Results**

Identifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR

**OK**

**Submit** **Reset**

**Generating Unit**

Generating Unit Identifier: 101

Generating Unit Name: AVALANCHE GAS

Changes made effective from: 11/13/1998

**AGC Market**

Max# of AGC Ranges: 2

**Black Start Capability**

☐ Yes ☒ No

**Market Status**

Market	Status
Energy	Active
AGC	Active
TMSR	Active
TMNSR	Active
TMOR	Active

**General** **Status** **Staffing** **Ownership**

**General** **Status** **Staffing** **Ownership**

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Fig. 48

**Netscape**  
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**energy-exchange™** **Power System** **Home**

**Network Area** **Network Node** **Generating Unit** **Load Facility** **Tie Line**

**New** **Existing** **Search Results**

**2. Select Generating Unit**

Identifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR

**OK** **Submit** **Reset**

**Generating Unit Identifier:** 101 **Changes made effective from:** 11/13/1998  
**Generating Unit Name:** AVALANCHE GAS

**Weekly Staffing**

Days	Start Time	Stop Time	Call-In Time	Unstaffed
Weekdays	1900	1900	2.0 hrs.	<input type="checkbox"/>
Saturday	1900	1900	2.0 hrs.	<input type="checkbox"/>
Sunday	1900	1900	2.0 hrs.	<input type="checkbox"/>

Use the same times for all days **All Days**

**General** **Status** **Staffing** **Ownership**

**Contracts** **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 49

**Netscape**  
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**energy-exchange™** **Power System** **Home**

**Network Area** **Network Node** **Generating Unit** **Load Facility** **Tie Line**

Generating Unit Identifier: 101  
Generating Unit Name: AVALANCHE GAS  
Changes made effective from: 11/13/1998

**Search Results**

**2. Select Generating Unit**

Identifier	Name
101	AVALANCHE GAS
102	PANTHER P/S GEN
103	LIGHTNING HYDRO
104	DALLAS STAR

**1. Enter Customer Search Criteria**

☒ Customer ID ☐ Customer Name

**2. Find**

**3. Select Customer**

Identifier	Name
Customer	Share
Cadillac Gen Co.	39.9999
Rolls Royce Utility	60.0001
<b>Total</b>	<b>100.0000</b>

**Customer Name**  
**Ownership Share** %  
**Lead Participant**  
**Meter Reader**

**Lead Participant** Cadillac Gen Co.  
**Meter Reader** Cadillac Gen Co.

**General** **Status** **Staffing** **Ownership**

**Contracts** **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

**Submit** **Reset** **OK** **OK**



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Fig. 50

**Netscape**  
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**energy-exchange™** **Power System** **Home**

**Network Area** **Network Node** **Generating Unit** **Load Facility** **Tie Line**

**New** **Existing** **Search Results**

**2. Select Load Facility**

Identifier	Name
201	MIGHTY DUCK LOAD
202	HURRICANE LOAD
203	SABRE LOAD
204	FLAME LOAD
205	CAPITAL LOAD
206	COYOTE LOAD

**OK** **Reset** **Submit**

**Load Facility Details**

Estimated Peak Load: 1000.0 MW  
Operating Status: Active  
Type: Normal

**Dispatchable** Yes No  
☐ ☒

**Metered** Yes No  
☐ ☒

**Network Node Association**

Load Facility Identifier: 202  
Load Facility Name: HURRICANE LOAD

Network Node Identifier: 402 **Details**

**General** **Ownership**

**Contracts** **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 51

**Netscape**  
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**energy-exchange™** **Power System** **Home**

**Network Area** **Network Node** **Generating Unit** **Load Facility** **Tie Line**

**Search Results**  
New Existing  
**Search Results**  
2. Select Load Facility

Identifier	Name
201	MIGHTY DUCK LOAD
202	HURRICANE LOAD
203	SABRE LOAD
204	FLAME LOAD
205	CAPITAL LOAD
206	COYOTE LOAD

OK

**Load Facility Identifier:** 202 **Changes made effective from:** 11/13/1998  
**Load Facility Name:** HURRICANE LOAD

**1. Enter Customer Search Criteria**  
Customer Name:   
Ownership Share:  %  
☐ Customer ID   
☐ Customer Name   
**Find**

**2. Select Customer**  
**Customer** **Share**  
Mustang Retail Co. 100.0000  
**Total** 100.0000  
Lead Participant   
Meter Reader   
**OK**

**General** **Ownership**

**Contracts** **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 52

**Netscape**  
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**energy-exchange™** **Power System** **Home**

**Network Area** **Network Node** **Generating Unit** **Load Facility** **Tie Line**

**New** **Existing** **Search Results**

**2. Select Tie Line**

Identifier	Name
301	Red
302	Orange
303	Yellow
304	Green
305	Blue
306	Indigo

**OK**

**Submit** **Reset**

**Changes made effective from:** 11/13/1998

**Tie Line Identifier:** 302 **Tie Line Name:** Orange

**Network Node Association**

**Monitor Node Identifier** 401 **Details**

**Receive Node Identifier** 403 **Details**

**Tie Line Details**

**Capacity** 2000.0 **MW**

**Operating Status** Active


**Type** EHV

**General** **Ownership**

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 53

**energy-exchange™**  **Home**

Network Area | Network Node | Generating Unit | Load Facility | Tie Line

File Edit View Go Communicator Help  
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**1. Enter Customer Search Criteria**

Changes made effective from: 11/13/1998

**Customer**

Customer ID: \*  
Customer Name:   
☐ Find

**2. Select Customer**

Identifier	Name
903	Cadillac Gen Co.
904	Mustang Retail Co.
905	Rolls Royce Utility
906	Mercedes Utility

**3. Select Customer**

**Customer**

Customer Name:   
Meter Reader: ☐

**Meter Reader**

Meter Reader: Cadillac Gen Co.

**2. Select Tie Line**

**Search Results**

Identifier	Name
301	Red
302	Orange
303	Yellow
304	Green
305	Blue
306	Indigo

**General Ownership**

Contracts Batch Scheduler | File Upload Settlement | Meter Readings Power System | Bids Customers | Bill About

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Fig. 54

**Netscape**  
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**energy-exchange™** Batch Scheduler Home

**General** Billing Log

**Select a Job:**

Settle All Hourly Markets
Settle An Hourly Market
Settle Installed Capability Market
Confirm Settlement Data
Confirm All Hourly Settlement Data
Prepare Bill
Print Bill Invoice
Calculate Governance Variables
Calculate Voting Shares
Perform Monthly Meter Adjustment
Determine Hourly Entitlements

**Run on:**

**Market Service**

**Begin Date**

**Begin Time**

**End Date**

**End Time**

**Priority** ☐ High ☐ Medium ☒ Low

**Submit** **Clear**

**Contracts** **File Upload** **Bids** **Bill**  
**Batch Scheduler** **Settlement** **Customers** **About**

**Meter Readings** **Power System**

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Fig. 55

**Netscape**  
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What's Related

**energy-exchange™**  
Batch Scheduler

**Home**

**General** Billing Log

**Select a Job:**

- Settle All Hourly Markets
- Settle An Hourly Market
- Settle Installed Capability Market
- Confirm Settlement Data
- Confirm All Hourly Settlement Data
- Prepare Bill
- Print Bill Invoice
- Calculate Governance Variables
- Calculate Voting Shares
- Perform Monthly Meter Adjustment
- Determine Hourly Entitlements

**Run on:** / /

**Due Date:** / /

**Priority:** ☐ High ☐ Medium ☒ Low

**Submit** **Clear**

**Contracts** **File Upload** **Meter Readings** **Bill**  
**Batch Scheduler** **Settlement** **Power System** **About**

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Fig. 56

**Netscape**  
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What's Related

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Batch Scheduler

**Home**

**General** Billing Log

**Select a Job:**

- Settle All Hourly Markets
- Settle An Hourly Market
- Settle Installed Capability Market
- Confirm Settlement Data
- Confirm All Hourly Settlement Data
- Prepare Bill
- Print Bill Invoice
- Calculate Governance Variables
- Calculate Voting Shares
- Perform Monthly Meter Adjustment
- Determine Hourly Entitlements

**Run on:**

**Begin Date:**

**Begin Time:**

**Priority:** ☐ High ☐ Medium ☒ Low

**Submit** **Clear**

**Contracts** **Batch Scheduler** **File Upload** **Settlement** **Meter Readings** **Power System** **Bids** **Customers** **Bill** **About**

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Fig. 57

**Netscape**  
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**energy-exchange™** Batch Scheduler Home

General Billing Log Rollback Bills

Select Billed Services and Data:

	Bill Start Date	Bill End Date	Bill End Date
<input checked="" type="checkbox"/> Energy	01/15/1998 01:00:00 AM	1/15/1998	06:00:00
<input checked="" type="checkbox"/> AGC	01/15/1998 01:00:00 AM	1/15/1998	06:00:00
<input checked="" type="checkbox"/> TMSR	01/15/1998 01:00:00 AM	1/15/1998	06:00:00
<input checked="" type="checkbox"/> TMSNR	01/15/1998 01:00:00 AM	1/15/1998	06:00:00
<input checked="" type="checkbox"/> TMOR	01/15/1998 01:00:00 AM	1/15/1998	06:00:00
<input type="checkbox"/> Installed Capability	01/01/1998 00:00:00 AM	2/1/1998	00:00:00
<input checked="" type="checkbox"/> Operable Capability	01/15/1998 01:00:00 AM	1/15/1998	06:00:00
<input type="checkbox"/> EHV/LV	12/01/1997 00:00:00 AM		
<input type="checkbox"/> Tariff	12/01/1997 00:00:00 AM		
<input type="checkbox"/> Adjustment	12/01/1997 00:00:00 AM		
<input type="checkbox"/> Bill Data	12/01/1997 00:00:00 AM		

Submit

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About



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Fig. 58

**Netscape**  
File Edit View Go Communicator Help  
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**energy-exchange™** Batch Scheduler Home

General Billing Log Rollback Bills

Select Billed Services and Data:

	Bill Start Date	Bill End Date	1/15/1998	01:00:00
<input checked="" type="checkbox"/> Energy	01/15/1998 00:00:00 AM	01/15/1998 00:00:00 AM	1/15/1998	01:00:00
<input checked="" type="checkbox"/> AGC	01/15/1998 00:00:00 AM	01/15/1998 00:00:00 AM	1/15/1998	01:00:00
<input checked="" type="checkbox"/> TMSR	01/15/1998 00:00:00 AM	01/15/1998 00:00:00 AM	1/15/1998	01:00:00
<input checked="" type="checkbox"/> TMSNR	01/15/1998 00:00:00 AM	01/15/1998 00:00:00 AM	1/15/1998	01:00:00
<input checked="" type="checkbox"/> TMOR	01/15/1998 00:00:00 AM	01/15/1998 00:00:00 AM	1/15/1998	01:00:00
<input checked="" type="checkbox"/> Operable Capability	01/15/1998 00:00:00 AM	01/15/1998 00:00:00 AM	1/15/1998	01:00:00

Submit

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

Applet MAIN\_APPLET running



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Fig. 60

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**Administered Price** Parameter Maintenance

Selection

Market: Energy

Date: From: Jan 15, 1998 00:00 To: Jan 15, 1998 01:00

Retrieve

Submit

**Energy Market Clearing Price**

From	To	Price	Type
01/15/1998 0:00	01/15/1998 1:00	65.08	Data Correction

Update

Reset

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 61

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**Administered Price** **Parameter Maintenance**

Selection  
Market: AGC  
Date: From: Jan 15, 1998 00:00 To: Jan 15, 1998 01:00  
Retrieve  
Submit

**AGC Market Clearing Price**

From	To	Price	Type
01/15/1998 0:00	01/15/1998 1:00	50.0	Clearing Price

Update Reset

From: 01/15/1998 0:00 To: 01/15/1998 1:00  
Clearing Price: 000000050.00  
Type: Clearing Price  
Update Reset




**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 62

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**Administered Price** **Parameter Maintenance**

**Parameter:** Trading Interval

As Of	Market	Length	Measure
01/01/1998 14:17	Energy	1	HOUR

**Entering Trading Interval value for Energy**

As Of	Market	Length	Measure
12/1/1998 <input type="text"/>	<input type="text"/>	0 <input type="text"/>	MINUTE <input type="text"/>

**Select Market Service**

Energy	<input type="text"/>
AGC	<input type="text"/>
TMSR	<input type="text"/>
TMSR	<input type="text"/>
TMOR	<input type="text"/>

---

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 63

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**Parameter Maintenance**

Administered Price:

Parameter: 

As Of	Until	Value
01/01/1998 0:00	01/01/1999 0:00	0.0

**Entering Hydro-Quebec Firm Energy Contract Rate Value**

As Of:    Until:    Value:

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 64

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**Parameter Maintenance**

Administered Price **Parameter:** ISO Objective Capability **Date**

Year: 1998-1999 **OK**

Year	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1994-1995												
1995-1996												
1996-1997												
1997-1998												
1998-1999	5	10	15	20	25	30	35	40	45	50	55	60

**Entering ISO Objective Capability Value**

Year	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1998-1999	5	10	15	20	25	30	35	40	45	50	55	60

**Add** **Reset** **Submit**

**Contracts** **File Upload** **Bids** **Bill**  
**Batch Scheduler** **Settlement** **Customers** **About**

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Fig. 65

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**Parameter Maintenance**

Administered Price  
Parameter: Phase Out Factor

As Of	Until	Value
12/01/1998 0:00	01/01/1999 0:00	20.0

**Entering Phase Out Factor Value**

As Of	Until	Value
12/1/1998	00:00	1 / 1/1999

Add Reset Submit

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About



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Fig. 66

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**Parameter Maintenance**

**Administered Price** **Parameter:** New Unit Adj. Factor

**Date**  
**From:** Dec 1, 1998 00:00  
**To:** Jan 1, 1999 00:00  
OK

**Select Asset**  
PANTHER P/S PUMP  
LIGHTNING HYDRO  
PANTHER P/S GEN  
AVALANCHE GAS  
MIGHTY DUCK LOAD  
Retrieve

**As Of** **Until** **Value**  
12/01/1998 0:00 01/01/1999 0:00 20.0

**Entering New Unit Adjustment Factor value for PANTHER P/S PUMP**  
**As Of** **Until** **Value**  
12/1/1998 00:00 1/1/1999 00:00 20.0  
Add Reset Submit

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 67

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**Parameter Maintenance**

**Administered Price** **Parameter:** Adjusted Monthly Peak **Value**

**Date**

**From:** Oct 1, 1998 **To:** Nov 1, 1998 **OK**

As Of	Until	Value
10/1/1998	11/1/1998	30.0

**Select Customer**

Cadillac Gen Co.  
Mustang Retail Co.  
Rolls Royce Utility  
Mercedes Utility  
Nissan MLJG

**Retrieve**

**Entering Adjusted Monthly Peak Load value for Cadillac Gen Co.**

As Of	Until	Value
10/1/1998	11/1/1998	00:00
		00:00
		30.0

**Add** **Reset** **Submit**

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 68

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**Administered Price** **Parameter Maintenance**

**Parameter:**

Trading Interval	Market	Length	Measure
01/01/1998 14:17	Energy	1	HOUR

**Entering Trading Interval value for Energy**

As Of	Market	Length	Measure
12/1/1998		0	MINUTE

Add Reset Submit

**Select Market Service**

Energy	
AGC	
TMSR	
TMNSR	
TMOR	

Retrieve




**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 69

**Netscape**  
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**Administered Price** **Parameter Maintenance**

**Parameter:**

Trading Interval	Market	Length	Measure
01/01/1998 14:17	Energy	1	HOUR

**Entering Trading Interval value for Energy**

As Of	Market	Length	Measure
12/1/1998 00:00		0	MINUTE

**Select Market Service**

Energy	
AGC	
TMSR	
TMNSR	
TMOR	

**Buttons:** Add, Reset, Submit, Retrieve

---

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 70

**Netscape**  
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**Bill**

**Adjustments** **Market Systems**

New Existing Search Helper

Choose Adjustment Type:  
☒ Balanced  
☐ UnBalanced

Adjustment Dates  
 11/17/1998 09:32:09

Adjustment Reason  
 Document Reference  
☒ Enclosure  
 Adjustment Description  
 Cadillac Gen Co. was undercharged for past adju

Reactivation Adjustment  
 11-01-98 React Adjust.doc

Customer Name	Adjustment Amount (\$)
Cadillac Gen Co.	100.00
Mercedes Utility	-100.00

Net Balance: \$ 0.00

Clear Fields Submit

**Contracts** **File Upload** **Bids** **Bill**  
 Batch Scheduler Settlement System Customers About

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Fig. 71

**Netescape**  
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**Adjustments** **Market System** **Customer Invoice** **Invoice Processing Date** **11-17-1998**

	Energy	AGC	TMSR	TMNSR	Receivables	Payables
Cadillac Gen Co.	\$ 3,300.00	\$ 0.00	\$ 0.00	\$ 256.00		\$ 7,011.00
Mustang Retail Co.	\$ -1474.14	\$ -2555.16	\$ 0.00	\$ -327.58	\$ 6,977.58	
Rolls Royce Utility	\$ -1024.14	\$ -2555.16	\$ 0.00	\$ 56.41	\$ 3,548.57	
Mercedes Utility	\$ -801.71	\$ 5,110.33	\$ 0.00	\$ 15.17		\$ 3,515.16
Hydro-Quebec	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00
NEPOOL	\$ 0.00					\$ 0.00
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 10,526.16	\$ 10,526.16


**Contracts** **Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

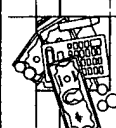
**Details**

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Fig. 72

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**Bill** 

**Market System**

Invoice Processing Date: 11-16-1998

Market System Details Customer Invoice  
 Customer Name: Cadillac Gen Co. Net Invoice Total: \$ 11,511.00

**Billed Service**

	Date	Amount
<input type="checkbox"/> Energy	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 3,800.00
<input type="checkbox"/> Energy Market		\$ 3,800.00
<input type="checkbox"/> Sum of Energy Settlement		\$ 3,300.00
<input type="checkbox"/> Sum of Uplift Pmt.		\$ 500.00
<input type="checkbox"/> Sum of Congestion Uplift Chg.		\$ 0.00
<input type="checkbox"/> Sum of Uplift Chg.		\$ 0.00
<input type="checkbox"/> Uplift Charge		\$ 0.00
<input type="checkbox"/> AGC	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 0.00
<input type="checkbox"/> TMSR	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 4,000.00
<input type="checkbox"/> TMSR	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 256.00
<input type="checkbox"/> TMOR	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 50.00
<input type="checkbox"/> Operable Capability	01/15/1998 00:00:00-01/15/1998 01:00:00	\$ 3,405.00

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 73

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**energy-exchange™** Home Meter Readings

Hourly Meter Readings Monthly Meter Readings

Start Results

1. Select Date Nov 11 1998

2. Select Asset Type All Assets

3. Select Display Criteria  
☒ All Assets  
☐ Assets with missing readings

4. Retrieve Asset List Retrieve

Select a Company Cadillac Gen Co. Clear All

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About



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Fig. 74

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**energy-exchange™** **Meter Readings** **Home**

Hourly Meter Readings Monthly Meter Readings

**5. Select Asset Name**

Asset Name	Asset Type	Unit
AVALANCHE GAS		

**Select a Company**  
Cadillac Gen Co.

**Clear All**

**6. Enter readings for AVALANCHE GAS on Nov 11, 1998**

Hour Ending	Readings (MWh)
0200	50.0
0300	50.0
0400	50.0
0500	50.0
0600	50.0
0700	50.0
0800	50.0
0900	50.0
1000	50.0
1100	50.0
1200	50.0
1300	50.0

**Reset Grid**

**Submit**

Total MWh: 600.0

**Contracts Batch Scheduler** **File Upload Settlement** **Meter Readings Power System** **Bids Customers** **Bill About**

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Fig. 75

**Netscape**  
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**energy-exchange™** Meter Readings Home

Hourly Meter Readings Monthly Meter Readings

Start Results

1. Select Year 1998

2. Select Asset Type All Assets

3. Select Display Criteria  
☒ All Assets  
☐ Assets with missing readings

4. Retrieve Asset List Retrieve

Select a Company  
Cadillac Gen Co. Clear All

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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Fig. 76

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**energy-exchange™** Meter Readings Home

Hourly Meter Readings Monthly Meter Readings

**5. Select Asset Name**

Asset Name	Asset Type	Unit
AVALANCHE GAS		

Select a Company  
Cadillac Gen Co.

Clear All

**6. Enter readings for AVALANCHE GAS for 1998**

Month	Readings (MWh)
January	50.0
February	50.0
March	50.0
April	50.0
May	50.0
June	50.0
July	50.0
August	50.0
September	50.0
October	50.0
November	50.0
December	50.0

Reset Grid Submit

Contracts Batch Scheduler File Upload Settlement Meter Readings Power System Bids Customers Bill About

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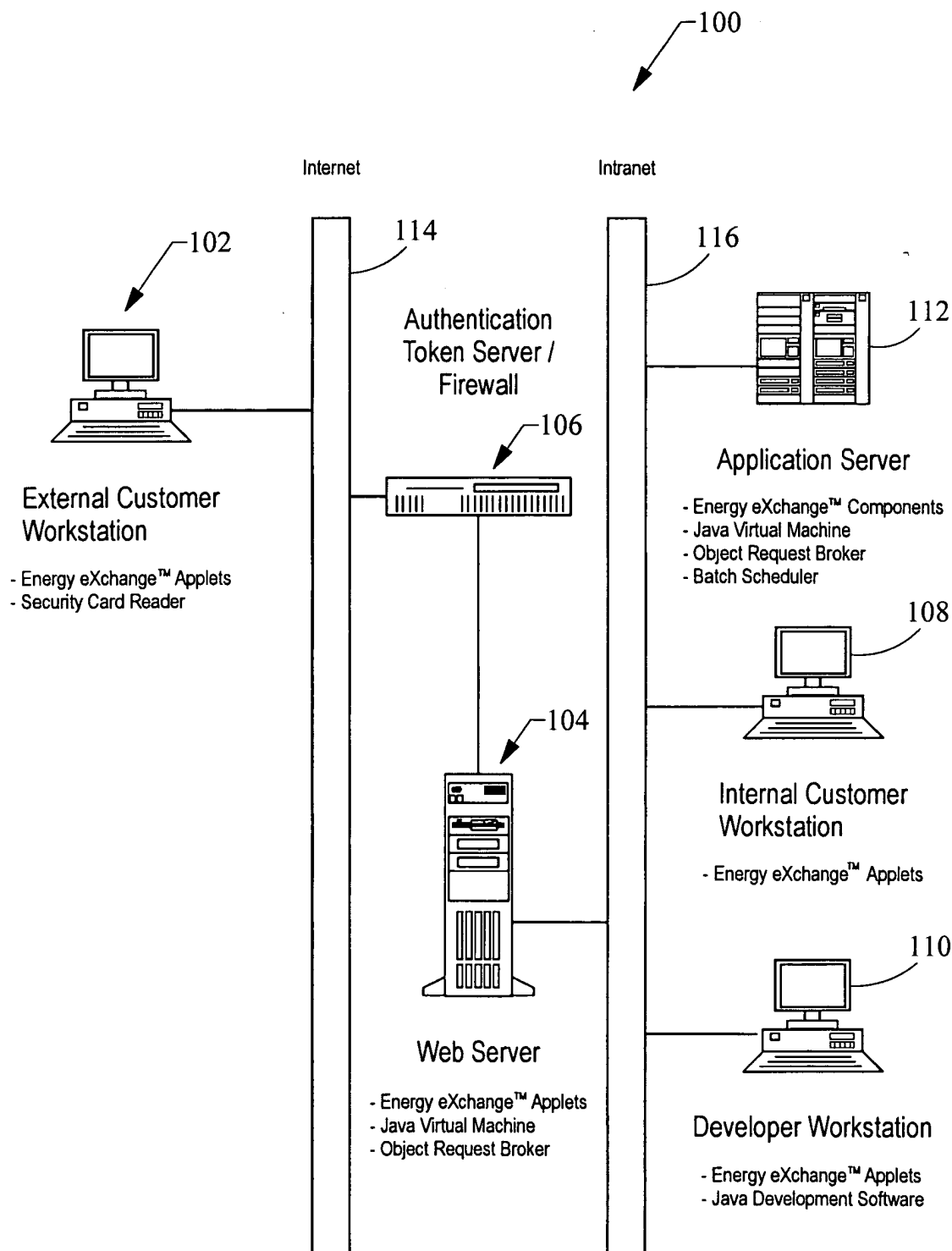


Fig. 77 : Technical Architecture

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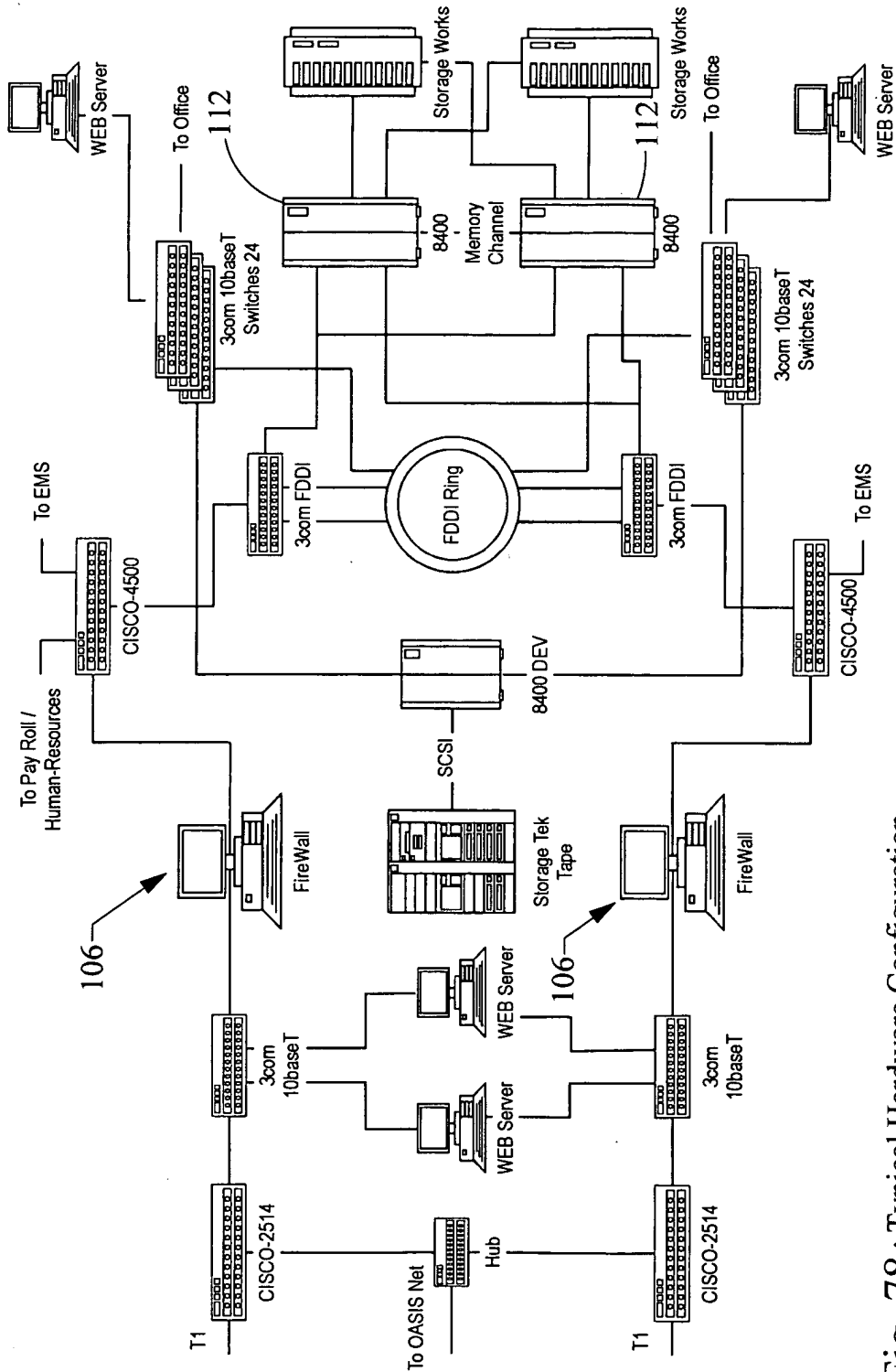


Fig. 78 : Typical Hardware Configuration

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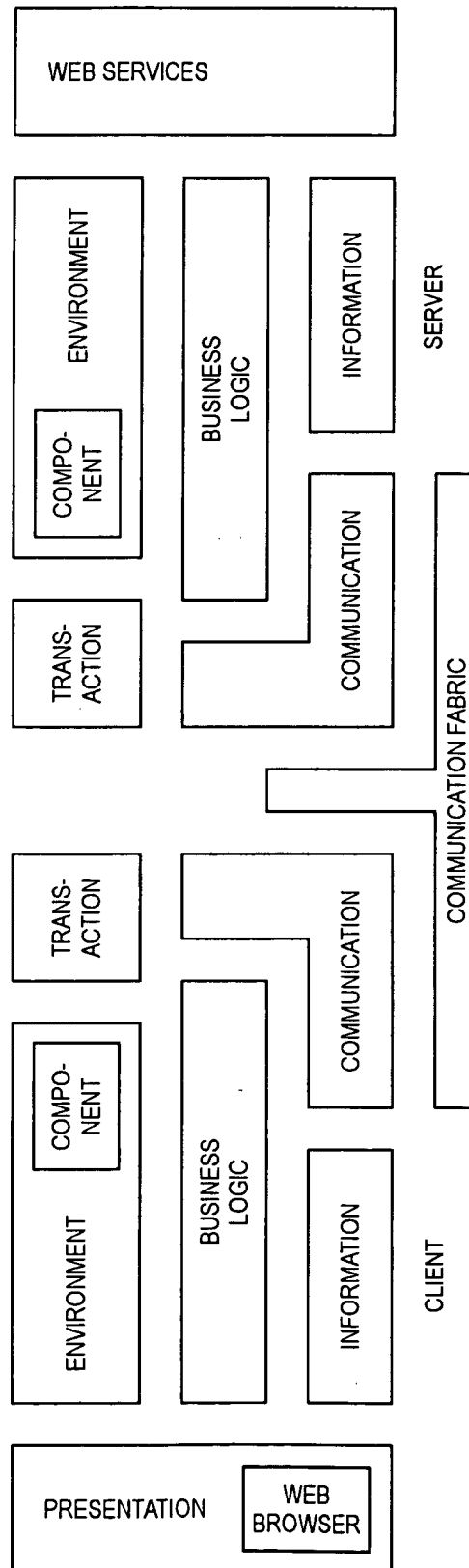


Fig. 79

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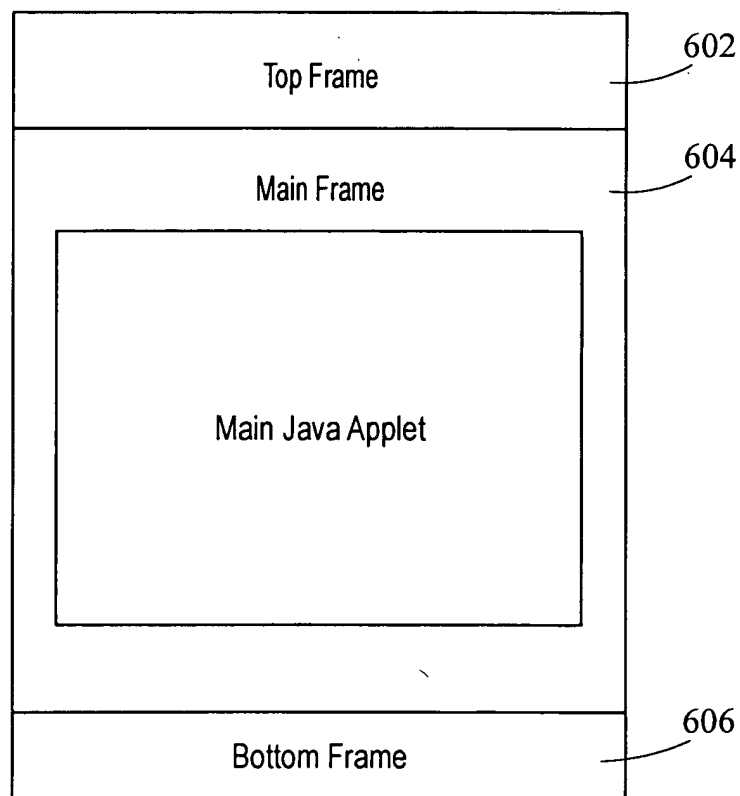


Fig. 80 : Basic UI Design

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Energy eXchange®  
 Application Architecture

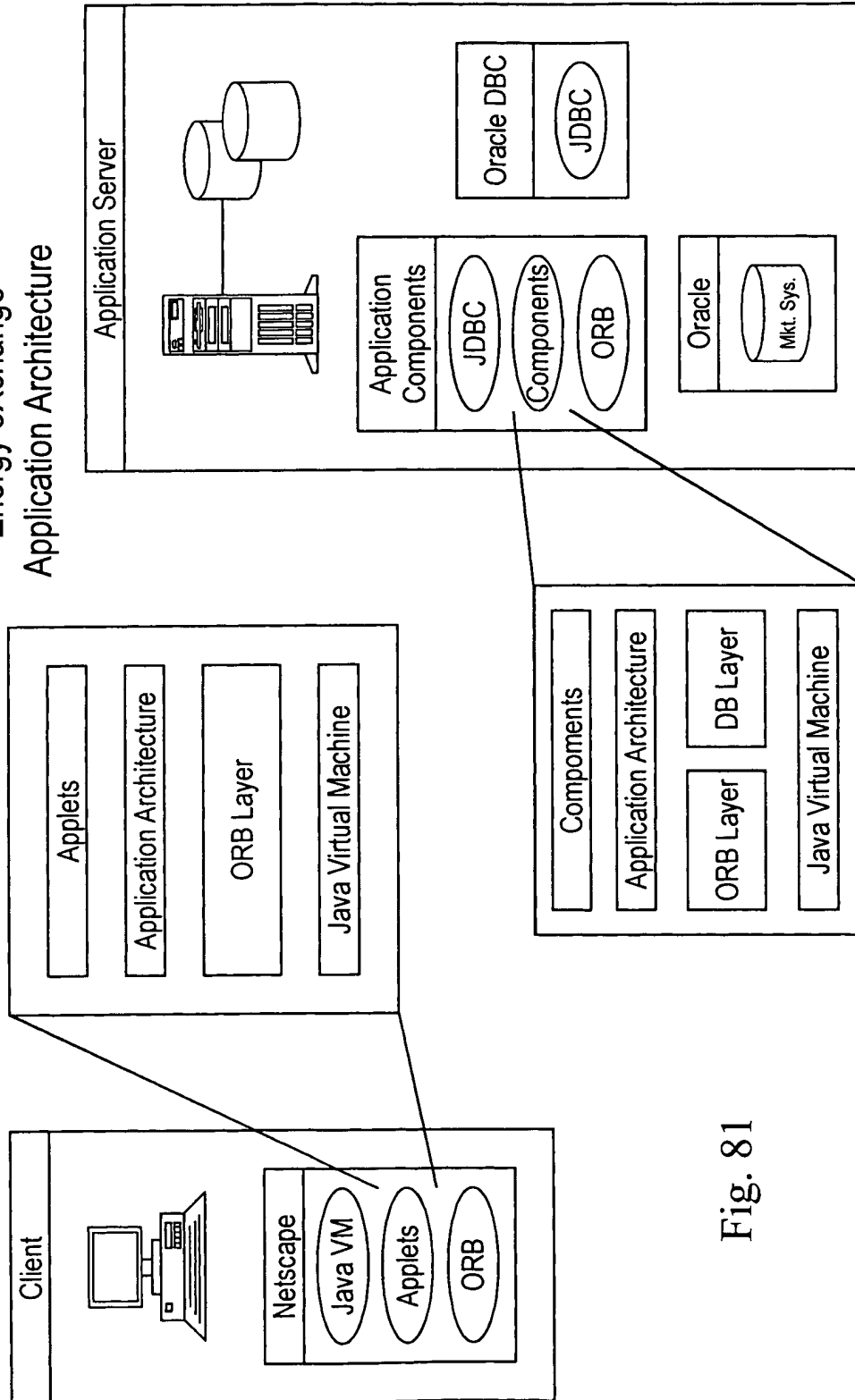


Fig. 81

ANDERSEN  
 CONSULTING



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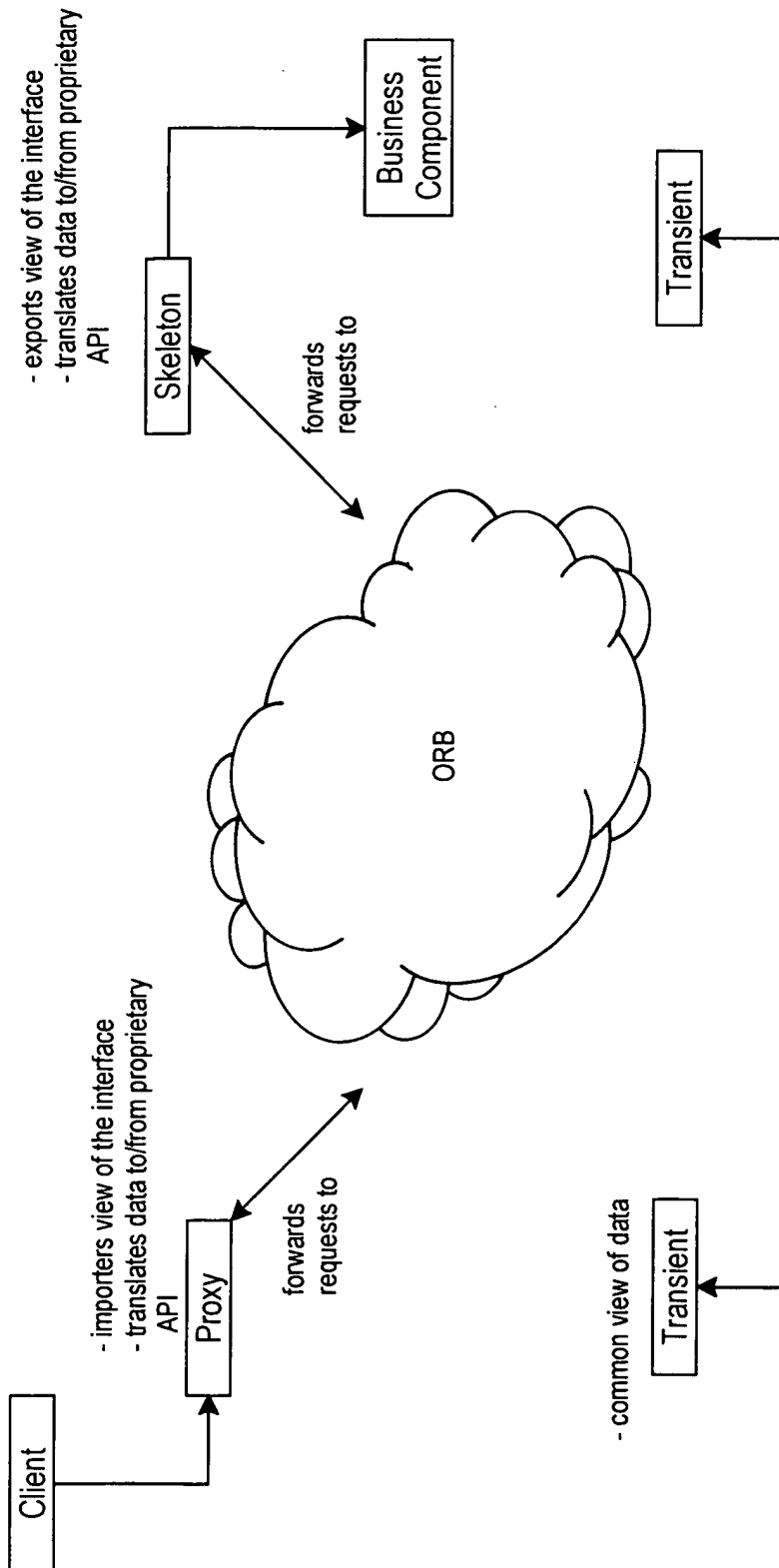


Fig. 82